

# WeBWorK

## Project Ohio NExT - 2012

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# Outline

- 1 Introduction
- 2 Installation and general use
- 3 What WeBWorK can do

# What is WeBWorK

- “WeBWorK is an open-source online homework system for math and sciences courses. WeBWorK is supported by the MAA and the NSF and comes with a National Problem Library (NPL) of over 20,000 homework problems. Problems in the NPL target most lower division undergraduate math courses and some advanced courses. Supported courses include college algebra, discrete mathematics, probability and statistics, single and multivariable calculus, differential equations, linear algebra and complex analysis.”
- Source: <http://webwork.maa.org/>

# Who uses WeBWorkK

Over 450 institutions!



# Documentation

- Homepage: <http://webwork.maa.org/>
- Tutorials:  
[http://webwork.maa.org/pdfs/webwork\\_getting\\_started.pdf](http://webwork.maa.org/pdfs/webwork_getting_started.pdf)  
[http://webwork.maa.org/pdfs/day\\_in\\_the\\_life.pdf](http://webwork.maa.org/pdfs/day_in_the_life.pdf)
- Wiki: <http://webwork.maa.org/wiki/>
- Forum: <http://webwork.maa.org/moodle/mod/forum/>
- “Ask a Friend” (We are friendly!)

- WeBWorK is open-source and free.
- Setup and maintenance are *not* free! You have to do it yourself, or hire someone.
- Two options:
  - Set up a server in your own institution. This may require working with your IT department.
  - MAA hosting:
    - Limited free hosting: one course per institution with up to 100 students, for one year. *One time only!*
    - Fee-based hosting: \$300 for six months (\$200 for MAA departmental members), per course.

# Fee-based hosting

- Fill the form:  
<http://forms.maa.org/r/webwork/add.aspx>
- MAA will create course and a primary instructor account.
- Primary instructor is responsible for adding students, creating homework sets, etc.
- Multi-session courses are supported, primary instructor can create additional instructor accounts.

# Local hosting

- Most common installation platform is Ubuntu 10.x.
- Detailed instructions: [http://webwork.maa.org/wiki/Installation\\_Manual\\_for\\_2.5\\_on\\_Ubuntu\\_10.04](http://webwork.maa.org/wiki/Installation_Manual_for_2.5_on_Ubuntu_10.04)
- Check IT policies at your institution before you start!



# Basic features

- Create courses, manage student accounts.
- Create and manage homework sets.
- Assign homework sets to students. Different sets can be assigned to different groups of students.
- Manage due dates. Can have a “late” due date, with reduced credit.
- Record student progress in each homework.
- System is very flexible: can change due dates for individual students, reopen closed homework, etc.

# Advanced features

- Create/edit problems.
- Integration with Moodle and Blackboard.
- Development.

# Let the fun start!

<http://webworks.csuohio.edu/webwork2/WeBWorKDemo/>